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APPLICANT : TOYOTA MOTOR CORP;

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TITLE : METHOD FOR OXIDIZING TI-AL INTERMETALLIC COMPOUND

ABSTRACT : PURPOSE: To provide a method for oxidizing a Ti Al intermetallic compound excellent in wear resistance.

CONSTITUTION: A Ti-Al intermetallic compound is subjected to oxidizing treatment under heating under the conditions of $T+50\log H \geq 750$... inequality (a) and $500+25 \times Al \geq T$... inequality (b) [where T: treating temp. ($^{\circ}$ C), H: treating time (h) and Al: the content of Al (wt.%) in the material to be treated] in an atmosphere contg. at least oxygen. In the oxidizing treatment, it is subjected to oxidizing treatment under heating under conditions of $25\log H+T+0.4 < 1150$... inequality (c) [where P: pressure (Torr)]. Thus, an oxidized film excellent in wear resistance can be obtd. on the surface of the Ti-Al intermetallic compound.

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